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NAVAL OCEAN SYSTEMS CENTER

San Diego, California 92152-5000

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ADMINISTRATIVE INFORMATION

Volume 2 of this document lists the patents granted to NOSC personnel from March 1977 until July 1991.

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In-Flight Hydrophone Deployment System for Underwater Vehicles, O. W. Albert, 14 September 1982.

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Heterojunction and Schottky Barrier EBS Targets, H. H. Wieder, 21 September 1982.

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Method of Providing Phase Biasing in a Continuous Single-Mode Fiber Ring Interferometer, M. N. McLandrich, 5 October 1982.

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Adaptive Correlator, J. R. Zeidler, J. M. McCool, B. Widrow, 19 October 1982.

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Snubber Assembly, A. R. Dean, 26 October 1982.

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Spherical Segment Insertion Apparatus, J. D. Stachiw, 26 October 1982.

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Lithium-6 Foil Neutron Detector, C. A. Young, 21 December 1982.

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Integrated Dual Taper Waveguide Expansion Joint, J. M. Devan, H. Milligan, 18 January 1983.

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Normally Off InP Field Effect Transistor Making Process, D. A. Collins, D. L. Lile, 8 February 1983.

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Method for Deployment of a Towed Array from a Swath Ship, P. A. Hanson, J. D. Hightower, A. T. Strickland, 8 February 1983.

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Polymer Packaged Cell in a Sack, J. F. McCartney, T. E. Jones, L. J. Johnson, 15 February 1983.

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In-Situ Leach Measuring System, P. F. Seligman, J. W. Neumeister, 1 March 1983.

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Pseudo-Atmospheric Noise Generator With Control of Temporal Characteristics, P. A. Singer, R. K. Cernius, 1 March 1983.

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Least Squares Lattice Decision Feedback Equalizer, M. J. Sensa, E. H. Satorius, J. D. Pack, 1 March 1983.

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Method of Fabricating a Fused Single-Mode Fiber Bidirectional Coupler, M. N. McLandrich, 22 March 1983.

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Multiplex System Tester, R. C. Reed, 10 May 1983.

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Transducer Array Crossover Network, C. C. Routh, 17 May 1983.

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Integrated Wheelchair and Ambulator, J. P. Wier, R. A. Garrett, 28 June 1983.

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Thrust Shaft Seal With Slidably Mounted Bearing Sleeve, L. J. Martini, 5 July 1983.

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Digital Interface System, D. P. Hurst, 5 July 1983.

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Method for Rapidly Detecting Subterranean Tunnels by Detecting a Non-Null Value of a Resultant Horizontal Magnetic Field Component, P. M. Hansen, J. G. Hoffman, E. W. Seeley, W. A. Andrew, 12 July 1983.

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Balloon Collector/Director SUNSUBSATCOM Concept, G. C. Mooradian, 19 July 1983.

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Low Drag Underwater Vehicle Utilizing Boundary Layer Sunction, T. G. Lang, 2 August 1983.

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Lift Line Tension Limiter, R. L. Wernli, J. M. Walton, J. L. Held, 2 August 1983.

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ASWIXS Remote Speaker and Headset Set, D. P. Hurst, 2 August 1983.

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Digital Sidelobe Canceller With Real Weights, G. M. Dillard, 9 August 1983.

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Fiber Optic System for Transmission Of Video Signals by Pulse-Frequency-Modulation, S. J. Cowen, 16 August 1983.

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Acoustic Envelope Having Minimal Vibration and Flow Induced Noises, H. A. Miller, C. S. Nichols, 30 August 1983.

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Triple Minimum Dispersion Wavelengths for a High NA Single-Mode Step-Index Fiber, C. T. Chang, 6 September 1983.

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Instantaneous Start and Stop Gas Generator, D. W. Caudy, D. J. Hackman, R. T. Hoffman, D. G. Uhler, 13 September 1983.

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Millimeter Wave Printed Circuit Mixer, J. Reindel, 20 September 1983.

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Fabrication of Submicron-Wide Lines With Shadow Depositions, E. C. Jelks, G. L. Kerber, 11 October 1983.

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Heterojunction-Diode Transistor EBS Amplifier, H. H. Wieder, 18 October 1983.

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Optical Lithographic Technique For Fabricating Submicron-Sized Josephson Microbridges, E. C. Jelks, G. L. Kerber, H. A. Wilcox, 15 November 1983.

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Hybrid Coupled Microstrip Amplifier, D. Rubin, 15 November 1983.

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Nightime/Daytime Diffuse Attenuation Coefficient Device for Seawater, G. C. Mooradian, 22 November 1983.

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Flexi-Bend Corrugated Waveguide, J. M. Devan, 31 January 1984.

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Programmable Bootstrap Loading System, R. E. Page, R. B. Brackett, 7 February 1984.

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Controlled Gas Generator System, D. W. Caudy, D. J. Hackman, J. R. Myers, R. T. Hoffman, 28 February 1984.

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Optical Resonator Single-Mode Fiber Hydrophone, M. N. McLandrich, D. J. Albares, 1 May 1984.

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Stepped Frequency Radar Target Imaging, D. R. Wehner, M. J. Prickett, 22 May 1984.

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Pivotal Mono Wing Cruise Missile With Wing Deployment and Fastener Mechanism, F. D. Groutage, S. N. Conjerti, L. S. Shaw, 12 June 1984.

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Integrated Wheelchair and Ambulator, J. P. Wier, R. A. Garrett, 26 June 1984.

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Method and Apparatus for Precise Measurement Of Long-Term Stability of Photodetectors, S. A. Miller, 10 July 1984.

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Current Stabilized Underwater Platform, L. T. Campbell, F. E. Gordon, H. Torkelson, 31 July 1984.

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Process for Making a Heterojunction Source-Drain Insulated Gate Field-Effect Transistor Utilizing Diffusion to Form the Lattice, H. H. Wiedler, A. R. Clawson, 4 September 1984.

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ECM Multiple-Target Retrodirective Antenna, R. A. Hills, 18 September 1984.

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Method for Determining In Situ the Absorption Coefficient of Particulate Media Using Pulsed Laser Technique, G. C. Mooradian, L. B. Stotts, 9 October 1984.

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Lithium-6 Coated Wire Mesh Neutron Detector, C. A. Young, B. D. Geelhood, 6 November 1984.

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Deep Ocean Wide Band Acoustic Baffle, J. L. Held, K. D. Collins, G. R. Mackelburg, 11 December 1984.

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Dead-faced Electrical Connector with Electromagnetic Vulnerability Protection, A. R. Erbe, 18 December 1984.

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Wave Power Buoy Generator, R. A. Rowe, 8 January 1985.

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Apparatus for Measuring the Spatial Scolar Variation of a Magnetic Field with Vector Magnetic Sensors on a Moderately Stable Moving Platform, G. W. Byram, 8 January 1985.

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Optical Non-line-of-sight Covert, Secure, High Data Communication System, M. Geller, T. E. Keenan, D. E. Altman, R. H. Patterson, 8 January 1985.

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Pivotal Mono-Wing Cruise Missile with Wing Deployment and Fastener Mechanism, F. D. Groutage, S. N. Conjerti, L. S. Shaw, 15 January 1985.

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Master Buoy System for Acoustic Array Deployment Using Underwater Glide Bodies Remotely Launched from a Submerged Pod, R. A. Flood, H. R. Talkington, R. A. Wheelock, R. L. Watts, 22 January 1985.

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Remotely Activated Cable Cutter, M. W. Cooke, A. Arriola, J. M. Stegman, K. D. Collins, 29 January 1985.

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Shielding Apparatus for Microwave Thawing, N. L. Campbell, J. G. Pinto, J. A. Drewe, P. D. Hayes, R. A. Nelson, 5 March 1985.

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Semiconductor Laser End-Facet Coatings for Use in Solid or Liquid Environments, G. A. Garcia, S. J. Cowen, 9 April 1985.

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Manchester Decoder Clock Multiplier, A. D. Gomez, E. W. Gennetten, 23 April 1985.

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Portable Surfacing Machine for Boiler Manhole, J. F. Wilger, G. Nakano, W. A. Berman, 30 April 1985.

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Expendable Underwater Acoustic Projector, P. A. Hanson, J. M. Walton, 30 April 1985.

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Metallized Synthetic Cable, T. E. Jones, 21 May 1985.

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Fluid Responsive Rotor Generator, R. A. Rowe, 28 May 1985.

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Zoned Intrusion Display with Series-Connected Sensors, A. Roth, 11 June 1985.

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In-Situ Annular Face Grinder, B. D. Sears, G. G. Holland, J. R. Cazinha, D. T. Reames, 2 July 1985.

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3-D Imaging with Stepped Frequency Waveforms and Monpulse Processing, D. R. Wehner, 2 July 1985.

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Real-Time Ultra-High Resolution Image Projection Display Using Laser-Addressed Liquid Crystal Light Valve, J. A. Trias, J. Marez, 6 August 1985.

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Helicopter Extractable Cold Weather/Water Liferaft, W. A. Andrew, C. E. Shields, H. O. Hindlin, R. Hamilton, 6 August 1985.

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Grinding Machine for Water-Tight Hatch Lugs, J. F. Wilger, G. S. Nakano, S. Orillo, Jr., J. R. Cazinha, 13 August 1985.

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Frequency Agile Magnetron Imaging Radar, D. R. Wehner, 27 August 1985.

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Digital MSK Modulator, D. M. French, 3 September 185.

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Retro-Reflective Alignment Technique for Fiber Optical Connectors, C. M. Young, S. J. Cowen, 8 October 1985.

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Furnace Transient Anneal Process, D. A. Collins, D. L. Lile, C. R. Zeisse, 26 November 1985.

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Weld Metal Cooling Rate Indicator System, R. A. Morris, W. E. Lukens, C. A. Zanis, 26 November 1985.

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Universal Microcomputer for Individual Sensors, T. E. Stixrud, B. Sotirin, 31 December 1985.

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System for Measuring Bioluminescence Flash Kinetics, J. R. Losee, D. Lapota, 7 January 1986.

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Automatic Character Recognition System, T. W. Metcalf, 7 January 1986.

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Leak Free Floating Packing Shaft Seal, J. D. Spargo, A. B. Nield, M. M. Phillips, 25 February 1986.

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Constant Rise AGC Device, R. A. Slack, 4 March 1986.

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Vector Summation Power Amplifier, R. E. Hammond, J. L. Henry, 11 March 1986.

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In-Situ Machine for Refurbishing a Bore in a Workpiece, J. F. Wilger, G. Nakano, S. Orillo, Jr., T. Higa, W. A. Berman, 8 April 1986.

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Bilaminar Seawater Battery, J. F. McCartney, 22 July 1986.

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Real-Time Ultra-High Resolution Image Projection Display Using Laser-Addressed Liquid Crystal Light Valve, J. A. Trias, 9 September 1986.

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Frequency Generator with Digitally Controlled Phase Modulation, D. J. Adrian, L. E. Christensen, J. C. Hanselman, 30 September 1986.

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Flexible Annular Jet Seal for Surface Effect Vehicles, F. W. Wilson, H. J. Howe, J. H. Nichols, Jr., 7 October 1986.

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Programmable Time Varying Attenuator, P. A. Singer, J. L. Conrath, 25 November 1986.

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Microprocessor-Based Programmable Frequency Control for Frequency Agile Radar, M. J. Prickett, M. H. Mott, N. Panos, 23 December 1986.

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Digital Raster Timing Encoder/Decoder, E. W. Gennetten, D. A. Gomez, 23 December 1986.

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Advanced Cube Processor, k. P. Bocker, 30 December 1986.

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Concretization of High Level Radioactive Source in Marine Sediment, H. V. Weiss, 13 January 1987.

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Video/Digital Data Multiplexer, M. McCord, A. Arriola, S. J. Cowen, 17 February 1987.

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Stereoscopic Three Dimensional Large Screen Liquid Crystal Display, T. E. Phillips, J. Marez, 3 March 1987.

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Fabrication of Semiconductor Devices in Recrystallized Semiconductor Films on Electro-Optic Substrates, R. E. Reedy, 17 March 1987.

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Method of Curing Patches on Contoured Surfaces, R. E. Hammond, 24 March 1987.

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Universal Test Board Serial Input (for Synthesizer Testing), R. E. Page, 14 April 1987.

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Collapsible Salvage Drum and Method, R. W. Buecher, 21 April 1987.

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Thermally Activated Vapor Etchant for InP, A. R. Clawson, 9 June 1987.

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Sealing Apparatus for a Vaive Body Opening, J. F. Wilger, S. Orillo, Jr., G. S. Nakano, 28 July 1987.

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Hermetic High-Pressure Fiber Optic Bulkhead Penetrator, S. J. Cowen, 28 July 1987.

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Integrated Optical Time Domain Reflectometer/Insertion Loss Measurement System, M. R. Brininstool, 11 August 1987.

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Optical Floating-Point Matrix-Vector Multiplier, R. P. Bocker, W. J. Miceli, 8 September 1987.

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Metal Matrix Composite Piston Head and Method of Fabrication, D. M. Bullat, 17 November 1987.

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Narrow Spectral Bandwidth, UV Solar Blind Detector, M. Geller, 15 March 1988.

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Microwave Apparatus for Heating Contained Liquid, N. L. Campbell, J. G. Pinto, J. A. Drewe, G. W. Ghing, F. R. Borkat, 3 May 1988.

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Anodic Coating with Enhanced Thermal Conductivity, T. R. Ogden, 18 April 1989.

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Optical Arithmetic Logic Using the Modified Signed-Digit Redundant Number Representation, M. E. Lasher, R. P. Bocker, B. L. Drake, T. B. Henderson, 13 June 1989.

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